

1/3

## SEQUENCE LISTING

5 <110> Pipeline-Biotech  
Finn Skou Pedersen  
Shervin Bahrami  
Mogens Ryttergaard Duch

10 <120> A purified retroviral envelope  
polypeptide, isolated nucleic acids encoding said  
polypeptide, vectors and use thereof

<130> P32118PC01

15

<150> PA200200767

<151> 2002-05-17

<160> 2

20

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 1920

25

<212> DNA

<213> Murine Leukaemia Virus

<400> 1

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	gtcttcaatg	ttacttggag	agttaccaac	ttaatgacag	gacaaacagc	taatgctacc	180
	tccctcctgg	ggacaatgac	cgatgccttt	cctaaactgt	actttgactt	gtgcgattta	240
	ataggggacg	actgggatga	gactggactc	gggtgtcgca	ctcccggggg	aagaaaaagg	300
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2/3

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5 &lt;210&gt; 2

&lt;211&gt; 639

&lt;212&gt; PRT

&lt;213&gt; Murine Leukaemia Virus

10 &lt;400&gt; 2

Met	Glu	Gly	Pro	Ala	Phe	Ser	Lys	Pro	Leu	Lys	Asp	Lys	Ile	Asn	Pro	1	5	10	15
Trp	Gly	Pro	Leu	Ile	Val	Leu	Gly	Ile	Leu	Met	Arg	Ala	Arg	Val	Ser	20	25	30	
Val	Gln	His	Asp	Ser	Pro	His	Gln	Val	Phe	Asn	Val	Thr	Trp	Arg	Val	35	40	45	
Thr	Asn	Leu	Met	Thr	Gly	Gln	Thr	Ala	Asn	Ala	Thr	Ser	Leu	Leu	Gly	50	55	60	
Thr	Met	Thr	Asp	Ala	Phe	Pro	Lys	Leu	Tyr	Phe	Asp	Leu	Cys	Asp	Leu	65	70	75	80
Ile	Gly	Asp	Asp	Trp	Asp	Glu	Thr	Gly	Leu	Gly	Cys	Arg	Thr	Pro	Gly	85	90	95	
Gly	Arg	Lys	Arg	Ala	Arg	Ile	Phe	Asp	Phe	Tyr	Val	Cys	Pro	Gly	His	100	105	110	
Thr	Val	Leu	Ala	Gly	Cys	Gly	Gly	Pro	Arg	Glu	Gly	Tyr	Cys	Gly	Lys	115	120	125	
Trp	Gly	Cys	Glu	Thr	Thr	Gly	Gln	Ala	Tyr	Trp	Lys	Pro	Ser	Ser	Ser	130	135	140	
Trp	Asp	Leu	Ile	Ser	Leu	Lys	Arg	Gly	Asn	Thr	Pro	Lys	Gly	Gln	Gly	145	150	155	160
Pro	Cys	Tyr	Asp	Ser	Ser	Val	Val	Ser	Ser	Ser	Ala	Gln	Gly	Ala	Thr	165	170	175	
Pro	Gly	Gly	Arg	Cys	Asn	Pro	Leu	Val	Leu	Glu	Phe	Thr	Asp	Ala	Gly	180	185	190	
Lys	Arg	Ala	Ser	Trp	Asp	Ala	Ser	Lys	Ala	Trp	Gly	Leu	Arg	Leu	Tyr	195	200	205	
Arg	Ser	Thr	Arg	Thr	Asp	Pro	Val	Thr	Arg	Phe	Ser	Leu	Thr	Arg	Gln	210	215	220	
Val	Leu	Asn	Ile	Gly	Pro	Arg	Val	Pro	Ile	Gly	Pro	Asn	Pro	Val	Ile	225	230	235	240
Ile	Asp	Gln	Leu	Pro	Pro	Ser	Arg	Pro	Val	Gln	Ile	Met	Leu	Pro	Arg	245	250	255	
Pro	Pro	Gln	Pro	Pro	Pro	Pro	Gly	Ala	Ala	Ser	Thr	Val	Pro	Glu	Thr	260	265	270	
Ala	Pro	Pro	Ser	Gln	Gln	Pro	Gly	Thr	Gly	Asp	Arg	Leu	Leu	Asn	Leu	275	280	285	
Val	Asn	Gly	Ala	Tyr	Gln	Ala	Leu	Asn	Leu	Thr	Ser	Pro	Asp	Lys	Thr	290	295	300	
Gln	Glu	Cys	Trp	Leu	Cys	Leu	Val	Ala	Gly	Pro	Pro	Tyr	Tyr	Glu	Gly	305	310	315	320
Val	Ala	Val	Leu	Gly	Thr	Tyr	Ser	Asn	His	Thr	Ser	Ala	Pro	Ala	Asn	325	330	335	
Cys	Ser	Val	Ala	Ser	Gln	His	Lys	Leu	Thr	Leu	Ser	Glu	Val	Thr	Gly	340	345	350	
Gln	Gly	Leu	Cys	Val	Gly	Ala	Val	Pro	Lys	Thr	His	Gln	Ala	Leu	Cys	355	360	365	
Asn	Thr	Thr	Gln	Lys	Thr	Ser	Asn	Gly	Ser	Tyr	Tyr	Leu	Ala	Ala	Pro	370	375	380	

3/3

Ala Gly Thr Ile Trp Ala Cys Asn Thr Gly Leu Thr Pro Cys Leu Ser  
 385 390 395 400  
 5 Thr Thr Val Leu Asp Leu Thr Thr Asp Tyr Cys Val Leu Val Glu Leu  
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 Trp Pro Lys Val Thr Tyr His Ser Pro Gly Tyr Val Tyr Gly Gln Phe  
 420 425 430  
 Glu Glu Lys Thr Lys Tyr Lys Arg Glu Pro Val Ser Leu Thr Leu Ala  
 435 440 445  
 10 Leu Leu Leu Gly Gly Leu Thr Met Gly Gly Ile Ala Ala Gly Val Gly  
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 Thr Gly Thr Thr Ala Leu Val Ala Thr Gln Gln Phe Gln Gln Leu Gln  
 465 470 475 480  
 15 Ala Ala Met Gln Asp Asp Leu Lys Glu Val Glu Lys Ser Ile Thr Asn  
 485 490 495  
 Leu Glu Arg Ser Leu Thr Ser Leu Ser Glu Val Val Leu Gln Asn Arg  
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 Arg Gly Leu Asp Leu Leu Phe Leu Lys Glu Gly Gly Leu Cys Ala Ala  
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 20 Leu Lys Glu Glu Cys Cys Phe Tyr Ala Asp His Thr Gly Leu Val Arg  
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 Asp Ser Met Ala Lys Leu Arg Glu Arg Leu Ser Gln Arg Gln Lys Leu  
 545 550 555 560  
 25 Phe Glu Ser Gln Gln Gly Trp Phe Glu Gly Leu Phe Asn Lys Ser Pro  
 565 570 575  
 Trp Phe Thr Thr Leu Ile Ser Thr Ile Met Gly Pro Leu Ile Ile Leu  
 580 585 590  
 Leu Leu Ile Leu Leu Phe Gly Pro Cys Ile Leu Asn His Leu Val Gln  
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 Gln Tyr His Gln Leu Lys Thr Ile Glu Asp Cys Glu Ser Arg Glu  
 625 630 635  
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